

Standard Development Timeline

This section is maintained by the drafting team during the development of the standard and will be removed when the standard becomes effective.

Development Steps Completed

1. The SAR and supporting package were posted for comment (July 2013).
2. First posting of the draft standard for a 45-day comment period and parallel ballot (July/August 2013).
3. Second posting of the draft standard for a 45-day comment period and parallel ballot (October/November 2013)

Description of Current Draft

This is the second posting of the proposed draft standard. This proposed draft standard will be posted for a 45-day formal comment period and parallel ballot.

Anticipated Actions	Anticipated Date
45-day Comment Period with Parallel Ballot	October/November 2013
Final ballot	December 2013
BOT adoption	December 2013

Effective Dates

MOD-031-1 shall become effective on the first day of the first calendar quarter that is twelve months ~~after~~beyond the date that this standard is approved by applicable regulatory authorities or as otherwise provided for in a jurisdiction where approval by an applicable governmental authority is required for a standard to go into effect. Where approval by an applicable governmental authority is not required, the standard shall become effective on the first day of the first calendar quarter that is twelve months after the date the standard is adopted by the NERC Board of Trustees or as otherwise provided for in that jurisdiction.

~~In those jurisdictions where regulatory approval is not required, MOD-031-1 shall become effective on the first day of the first calendar quarter that is twelve months beyond the date this standard is approved by the NERC Board of Trustees, or as otherwise made effective pursuant to the laws applicable to such ERO governmental authorities.~~

Version History

Version	Date	Action	Change Tracking
1	TBD	Adopt MOD-031-1	

Definitions of Terms Used in Standard

This section includes all newly defined or revised terms used in the proposed standard. Terms already defined in the Reliability Standards Glossary of Terms are not repeated here. New or revised definitions listed below become approved when the proposed standard is approved. When the standard becomes effective, these defined terms will be removed from the individual standard and added to the Glossary.

Demand Side Management (DSM): ~~The term for a~~ All activities or programs undertaken by any applicable entity to [request that Demand be reduced. Examples of DSM may include, but are not limited to, Direct Control Load Management, Interruptible Load, critical peak pricing \(CPP\) with control, and Load as capacity resources influence the amount or timing of electricity they use.](#)

Total Internal Demand: [The Demand of a metered system which includes the Firm Demand, the DSM Load and the Load due to the energy losses incurred in the Transmission and distribution systems.](#)

When this standard has received ballot approval, the text boxes will be moved to the Application Guidelines Section of the Standard.

A. Introduction

1. **Title:** Demand and Energy Data
2. **Number:** MOD-031-1
3. **Purpose:** To enumerate the responsibilities and obligations of requestors and respondents for the collection of Demand and energy data to support reliability studies and assessments.
- ~~3. ensure that actual and forecast Demand data necessary for assessment and validation of past events and to support future system assessment is reported.~~
4. **Applicability:**
 - 4.1. **Functional Entities:**
 - 4.1.1 Planning Authority and/ Planning Coordinator (hereafter collectively referred to as the “Planning Coordinator”)

This proposed standard combines “Planning Authority” with “Planning Coordinator” in the list of applicable functional entities. The NERC Functional Model lists “Planning Coordinator” while the registration criteria list “Planning Authority,” and they are not yet synchronized. Until that occurs, the proposed standard applies to both “Planning Authority” and/or “Planning Coordinator.”
 - 4.1.2 Transmission Planner
 - 4.1.3 Balancing Authority
 - 4.1.4 Resource Planner
 - 4.1.5 Load-Serving Entity
 - 4.1.6 Distribution Provider

5. Effective Date

- 5.1. MOD-031-1 shall become effective on the first day of the first calendar quarter that is twelve months after the date that this standard is approved by applicable regulatory authorities or as otherwise provided for in a jurisdiction where approval by an applicable governmental authority is required for a standard to go into effect. Where approval by an applicable governmental authority is not required, the standard shall become effective on the first day of the first calendar quarter that is twelve months after the date the standard is adopted by the NERC Board of Trustees or as otherwise provided for in that jurisdiction.

5.6. Background:

To ensure that the purpose of this standard may be carried out various forms of historical and forecast demand and energy data and information must be available to the parties that perform the studies and assessments needed to ensure the adequacy of the Bulk Electric System (BES) and to be able to validate past events. The fundamental test for determining the adequacy of the Bulk Power System (BPS) is to determine the amount of resources and the certainty of these resources to be available to serve peak demand while maintaining sufficient margin to address operating events. This test requires the collection and aggregation of demand forecasts on a normalized basis. This is defined as a forecast that has been adjusted to reflect normal weather conditions, and is expected on a 50% probability basis – also known as a 50/50 forecast (i.e. there is a 50% probability that the actual peak realized will be either under or over the projected peak). This forecast can then be used to test against more extreme conditions.

The collection of demand, Net Energy for Load and Demand Side Management data projections requires coordination and collaboration between Planning Authorities (Planning Coordinators), Transmission and Resource Planners, ~~and~~ Load-Serving Entities and Distribution Providers. Ensuring that planners and operators have access to complete and accurate load forecasts – as well as the supporting methods and assumptions used to develop these forecasts – will ultimately enhance the reliability of the BPS. Consistent documenting and information sharing activities will also improve efficient planning practices and support the identification of needed system reinforcements. Furthermore, collection of actual Demand and Demand-Side Mmanagement performance during the prior year will allow for comparison to prior forecasts and further contribute to enhanced accuracy of load forecasting practices.

B. Requirements and Measures

Rationale for R1: To ensure when Planning Coordinators (PC) or Balancing Authorities (BA) request data (R1), they identify the entities to provide the data (Applicable Responsible entity in part R1.1), that the entities providing the data know what they are to provide (parts R 1.3 – R 1.5) and the due dates (part R 1.2) for the requested data.

- R1. Each Planning Coordinator or Balancing Authority may develop and issue a data data reporting request, as necessary, for the collection of Total Internal Demand, Net Energy for Load and Demand Side Management data from applicable entities in their area.¹ The data request shall include:~~The Planning Coordinator or Balancing Authority, as identified by the Regional Entity in a data request, shall develop and~~

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¹ For the Balancing Authority, “their area” encompasses their Balancing Authority Area as defined in the NERC Glossary of Terms. For the Planning Coordinator, “their area” encompasses the facilities for which the Planning Coordinator coordinates and integrates transmission facilities, service plans, resource plans, and protection systems.

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issue a data reporting request associated with a data request issued by the Regional Entity. This data reporting request shall include, at a minimum: [Violation Risk Factor: Medium] [Time Horizon: Long-term Planning]

1.1. A list of Transmission Planners, Balancing Authorities, Load Serving Entities, and Distribution Providers that are required to provide the data ("Applicable EntityEntities"),

1.2. A schedule detailing the timetable for providing the data. (A minimum of 30-days must be allowed for responding to the request),

1.3. The original data request from the Regional Entity,

1.4.1.3. A requirement request to provide a request for any or all of the following actual data, as necessary;

1.4.1.1.3.1. Integrated hourly Total Internal Demands in megawatts (MW) for the prior year,

1.3.2. Monthly and annual peak hour actual Total Internal Demands in megawatts (MW) and Net Energy for Load in gigawatthours (GWh) for the prior year,

1.4.2.1.3.3. Monthly and annual Net Energy for Load in gigawatthours for the prior year,

1.4.3.1.3.4. Monthly and annual peak hour weather normalized actual Total Internal Demands in megawatts (MW) for the prior year,

1.4.4.1.3.5. Monthly and annual peak hour deployed and realized Interruptible Load and Direct Control Load Management under the control or supervision of the System Operator in megawatts (MW) for the prior year,

1.5.1.4. A requirement request to provide any or all of A request for the following forecast data, as necessary;

1.4.1. Monthly peak hour forecast Total Internal Demands in megawatts (MW) and Net Energy for Load in GWh for the next two calendar years,

1.4.2. Monthly forecast Net Energy for Load in gigawatthours for the next two calendar years,

1.4.3. Peak hour forecast Total Internal Demands (summer and winter) in megawatts (MW) and annual Net Energy for load in GWh for ten calendar years into the future,

1.5.1.1.4.4. Annual forecast Net Energy for Load in gigawatthours for ten calendar years into the future,

1.5.2.1.4.5. Forecasts of Interruptible Load and Direct Control Load Management (DCLM) under the control or supervision of the System Operator for at least five calendar years and up to ten calendar years into the future, as requested, for summer and winter peak system conditions,

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~~1.6. A request~~A requirement for Applicable Entities to identify registered entities that are within their footprint but are not a member of the requesting Region, and identify the Region where the data for that registered entity is reported.

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~~1.7.1.5. A~~ to provide a summary explanation of the following, if necessary:~~requirement for Applicable Entities to provide;~~

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~~1.7.1.1.5.1.~~ The assumptions and methods used in the development of aggregated peak Demand and Net Energy for Load forecasts.

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~~1.7.2.1.5.2.~~ The Demand and energy effects of Interruptible and Direct Control Load Management under the control or supervision of the System Operator.

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~~1.7.3.1.5.3.~~ How Demand Side Management measures are addressed in the forecasts of its Peak Demand and annual Net Energy for Load.

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~~1.7.4.1.5.4.~~ How the peak load forecast compares to actual load for the prior calendar year with due regard to controllable load,² temperature and humidity variations and, if applicable, how the assumptions and methods for future forecasts were adjusted.

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~~M1.~~ The Planning Coordinator or Balancing Authority as identified by the Regional Entity in its data request, shall have a dated data reporting request, either in hardcopy or electronic format, in accordance with Requirement R1.

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Rationale for R2: This will ensure that entities identified in Requirement R1, that are responsible for providing data, provide the data in accordance with the details described in the data ~~request~~reporting procedure developed in Requirement R1. In no event shall the Applicable Entity be required to provide data under this requirement that is outside the scope of parts 1.4-1.6 of Requirement R1.

² For the purpose of this standard, the term “controllable load” means both Interruptible Load and Direct Control Load Management as referenced in FERC Order 693 Paragraph 1267.

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R2. Each Applicable Entity shall provide the data requested by its Planning Coordinator or Balancing Authority in accordance with the data request issued pursuant to Requirement R1. Applicable Entity shall provide the data in accordance with the data reporting request in Requirement R1 to the Planning Coordinator or Balancing Authority or any other entity (such as Load Serving Entity, Planning Coordinator or Resource Planner) on request. *[Violation Risk Factor: Medium] [Time Horizon: Long-term Planning]*

M2. Each Applicable Entity shall have evidence such as dated e-mails or dated transmittal letters that it provided the data requested in accordance with Requirement R2.

Rationale for R3: This will ensure that the Planning Coordinator or when applicable, the Balancing Authority, provides the data requested by the Regional Entity.

R3. The Planning Coordinator or the Balancing Authority shall provide the data collected under Requirement R2 to the applicable Regional Entity upon request. In no event, however, shall the Planning Coordinator or the Balancing Authority be required to provide the data in less than 75 days from the date it received the data request from the Regional Entity. The entity identified by the Regional Entity in its data request, shall report the Applicable Entity's data as requested by the Regional Entity within the timeframe specified in the Regional Entity's request. *[Violation Risk Factor: Medium] [Time Horizon: Long-term Planning]*

M3. Each entity identified by the Regional Entity in its data request, shall have evidence such as dated e-mails or dated transmittal letters that it provided the data requested in accordance with Requirement R3.

Rationale for R4: This will ensure that Applicable Entity will provide the data requested by a Load Serving Entity, Planning Coordinator, Balancing Authority, Transmission Planner or Resource Planner unless providing the data would conflict with the provisions outlined in Requirement R4 below. The sharing of documentation of the supporting methods and assumptions used to develop forecasts as well as information-sharing activities will improve the efficiency of planning practices and support the identification of needed system reinforcements.

R4. Each Load Serving Entity, Planning Coordinator, Balancing Authority, Transmission Planner or Resource Planner shall, within 45 days of a written request for the data included in parts 1.3-1.5 of Requirement R1 from any other Load Serving Entity, Planning Coordinator, Balancing Authority, Transmission Planner or Resource Planner with a demonstrated reliability need for such data, provide or otherwise make

available that data to the requesting entity. This requirement does not modify an entity's obligation pursuant to Requirement R2 to respond to data requests issued by its Planning Coordinator or Balancing Authority pursuant to Requirement R1. Unless otherwise agreed upon, the Applicable Entity is not required to: [Violation Risk Factor: Medium] [Time Horizon: Long-term Planning]

- provide any data not within the scope of part 1.3-1.5 of Requirement R1;
- alter the format in which it maintains or uses the data; or
- provide data that conflicts with the Applicable Entity's confidentiality, regulatory, or security requirements.

4.1. If the Applicable Entity does not provide data requested under this requirement because (1) the requesting entity did not demonstrate a reliability need for the data; or (2) providing the data would conflict with the Applicable Entity's confidentiality, regulatory, or security requirements, the Applicable Entity shall provide a written response to the requesting entity specifying the data that is not being provided and on what basis.

~~M1-M4.~~ Each Load Serving Entity, Planning Coordinator, Balancing Authority, Transmission Planner or Resource Planner identified in Requirement R4, shall have evidence such as dated e-mails or dated transmittal letters that it provided the data requested or provided a written response specifying the data that is not being provided and the basis for not providing the data in accordance with Requirement R4.

C. Compliance

1. Compliance Monitoring Process

1.1. Compliance Enforcement Authority

As defined in the NERC Rules of Procedure, "Compliance Enforcement Authority" means NERC or the Regional Entity in their respective roles of monitoring and enforcing compliance with the NERC Reliability Standards.

1.2. Evidence Retention

The following evidence retention periods identify the period of time an entity is required to retain specific evidence to demonstrate compliance. For instances where the evidence retention period specified below is shorter than the time since the last audit, the Compliance Enforcement Authority may ask an entity to provide other evidence to show that it was compliant for the full time period since the last audit.

The Applicable Entity shall keep data or evidence to show compliance with Requirements R1 through R~~43~~, and Measures M1 through M~~43~~, since the last

audit, unless directed by its Compliance Enforcement Authority to retain specific evidence for a longer period of time as part of an investigation.

If an Applicable Entity is found non-compliant, it shall keep information related to the non-compliance until mitigation is complete and approved, or for the time specified above, whichever is longer.

The Compliance Enforcement Authority shall keep the last audit records and all requested and submitted subsequent audit records.

1.3. Compliance Monitoring and Assessment Processes:

Refer to the NERC Rules of Procedure for the Compliance Monitoring and Assessment processes.

1.4. Additional Compliance Information

None

Table of Compliance Elements

R #	Time Horizon	VRF	Violation Severity Levels			
			Lower VSL	Moderate VSL	High VSL	Severe VSL
R1	Long-term Planning	Medium	<p>The Planning Coordinator or Balancing Authority, as identified by the Regional Entity, developed a data reporting procedure but failed to address one of the items listed in Requirement R1, Part 1.6 or Part 1.7.1 through Part 1.7.4. <u>N/A</u></p>	<p><u>N/A</u> The Planning Coordinator or Balancing Authority, as identified by the Regional Entity, developed a data reporting procedure but failed to address two of the items listed in Requirement R1, Part 1.6 or Part 1.7.1 through Part 1.7.4.</p> <p>OR</p> <p>The Planning Coordinator or Balancing Authority, as identified by the Regional Entity, developed a data reporting procedure but failed to address one of the items listed in Requirement R1, Part 1.1 through Part 1.3, Part 1.4.1, Part</p>	<p><u>N/A</u> The Planning Coordinator or Balancing Authority, as identified by the Regional Entity, developed a data reporting procedure but failed to address three of the items listed in Requirement R1, Part 1.6 or Part 1.7.1 through Part 1.7.4.</p> <p>OR</p> <p>The Planning Coordinator or Balancing Authority, as identified by the Regional Entity, developed a data reporting procedure but failed to address two of the items listed in Requirement R1,</p>	<p>The Planning Coordinator or Balancing Authority developed and issued a data request but failed to include either the entity(s) necessary to provide the data or the timetable for providing the data. The Planning Coordinator or Balancing Authority, as identified by the Regional Entity, did not develop a data reporting procedure.</p> <p>OR</p> <p>The Planning Coordinator or Balancing Authority, as identified by the Regional Entity, developed a data reporting procedure but failed to issue the data reporting request to the Applicable Entities identified in Requirement R1 Part 1.1.</p>

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				<u>1.4.2 or Part 1.5.1 through Part 1.5.3.</u>	<u>Part 1.1 through Part 1.3, Part 1.4.1, 1.4.2 or Part 1.5.1 through Part 1.5.3.</u>	<p>OR</p> <p>The Planning Coordinator or Balancing Authority as identified by the Regional Entity, developed a data reporting procedure but failed to address any of the items listed in Requirement R1, Part 1.6 or Part 1.7.1 through Part 1.7.4.</p> <p>OR</p> <p>The Planning Coordinator or Balancing Authority as identified by the Regional Entity, developed a data reporting procedure but failed to address three or more of the items listed in Requirement R1, Part 1.1 through 1.3, Part 1.4.1, Part 1.4.2, or Part 1.5.1 through Part 1.5.3.</p>
R2	Long-term Planning	Medium	<u>The Applicable Entity, as defined in the data request developed in Requirement R1, failed to provide all of the</u>	<u>The Applicable Entity, as defined in the data request developed in Requirement R1, failed to provide one of the</u>	<u>The Applicable Entity, as defined in the data request developed in Requirement R1, failed to provide two of the</u>	<u>The Applicable Entity, as defined in the data request developed in Requirement R1, failed to provide three or more of</u>

			<p>data requested in Requirement R1 part 1.5.1 through part 1.5.4</p> <p>OR</p> <p>The Applicable Entity, as defined in the data request developed in Requirement R1, provided the data requested in Requirement R1, but did so after the date indicated in Requirement R1 part 1.2 but prior to 6 days after the date indicated in Requirement R1 part 1.2. N/A</p>	<p>requested items in Requirement R1 part 1.3.1 through part 1.3.5</p> <p>OR</p> <p>The Applicable Entity, as defined in the data request developed in Requirement R1, failed to provide one of the requested items in Requirement R1 part 1.4.1 through part 1.4.5</p> <p>OR</p> <p>The Applicable Entity, as defined in the data request developed in Requirement R1, provided the data requested in Requirement R1, but did so 6 days after the date indicated in Requirement R1 part 1.2 but prior to 11 days after the date indicated in Requirement R1 part</p>	<p>requested items in Requirement R1 part 1.3.1 through part 1.3.5</p> <p>OR</p> <p>The Applicable Entity, as defined in the data request developed in Requirement R1, failed to provide two of the requested items in Requirement R1 part 1.4.1 through part 1.4.5</p> <p>OR</p> <p>The Applicable Entity, as defined in the data request developed in Requirement R1, provided the data requested in Requirement R1, but did so 11 days after the date indicated in Requirement R1 part 1.2 but prior to 15 days after the date indicated in Requirement R1 part</p>	<p>the requested items in Requirement R1 part 1.3.1 through part 1.3.5</p> <p>OR</p> <p>The Applicable Entity, as defined in the data request developed in Requirement R1, failed to provide three or more of the requested items in Requirement R1 part 1.4.1 through part 1.4.5</p> <p>OR</p> <p>The Applicable Entity, as defined in the data request developed in Requirement R1, failed to provide the data requested in Requirement R1 prior to 16 days after the date indicated in Requirement R1 part 1.2. The Applicable Entity, as defined in the data reporting request developed in Requirement R1, failed to provide the data requested to the</p>
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				<u>1.2. N/A</u>	<u>1.2. N/A</u>	requesting entity as defined in Requirement R1.
R3	Long-term Planning	Medium	<u>The Planning Coordinator or Balancing Authority, in response to a request by the Regional Entity, made available the data collected under Requirement R2, but did so after 75 days from the date of request but prior to 81 days from the date of the request.N/A</u>	<u>The Planning Coordinator or Balancing Authority, in response to a request by the Regional Entity, made available the data collected under Requirement R2, but did so after 80 days from the date of request but prior to 86 days from the date of the request.N/A</u>	<u>The Planning Coordinator or Balancing Authority, in response to a request by the Regional Entity, made available the data collected under Requirement R2, but did so after 85 days from the date of request but prior to 91 days from the date of the request.N/A</u>	<u>The Planning Coordinator or Balancing Authority, in response to a request by the Regional Entity, failed to make available the data collected under Requirement R2 prior to 91 days or more from the date of the request.The entity as identified by the Regional Entity in its data request, failed to provide the data requested by the Regional Entity.</u>
<u>R4</u>	<u>Long-term Planning</u>	<u>Medium</u>	<u>The Applicable Entity provided or otherwise made available the data to the requesting entity but did so after 45 days from the date of request but prior to 51 days from the date of the request.</u>	<u>The Applicable Entity provided or otherwise made available the data to the requesting entity but did so after 50 days from the date of request but prior to 56 days from the date of the request.</u>	<u>The Applicable Entity provided or otherwise made available the data to the requesting entity but did so after 55 days from the date of request but prior to 61 days from the date of the request.</u>	<u>The Applicable Entity failed to provide or otherwise make available the data to the requesting entity within 60 days from the date of the request.</u>

D. Regional Variances

None.

E. Interpretations

None.

F. Associated Documents

None.

Application Guidelines

Guidelines and Technical Basis

Requirement R1:

Requirement R2:

Requirement R3: